PATENT COOPERATION TREATY PCT INTERNATIONAL PRELIMINARY EXAMINATION REPORT (PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER A			ionofTransmittalofInternational Preliminary Report (Form PCT/IPEA/416)		
International application No.	International filing da	ate (day/mor	nth/year)	Priority date (day/month/year)		
PCT/JP00/03957	16 June 200	0 (16.06.0	00)	17 June 1999 (17.06.99)		
International Patent Classification (IPC) or national classification and IPC G01N 33/53, A61K 45/00, 39/395 // C12N 15/06, 15/12, C07K 16/28						
Applicant K	YOWA HAKKO	KOGYO	CO., LTI).		
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 						
2. This REPORT consists of a total of	5 sheets	, including	this cover s	heet.		
been amended and are the base	This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of a to	tal of	sheets.				
3. This report contains indications rela	ting to the following ite	ems:				
I Basis of the report						
II Priority						
III Non-establishment o	of opinion with regard t	o novelty, i	nventive ste	ep and industrial applicability		
IV Lack of unity of inve	ention					
V Reasoned statement citations and explana				ventive step or industrial applicability;		
VI Certain documents of	cited					
VII Certain defects in the	VII Certain defects in the international application					
VIII Certain observations on the international application						
Date of submission of the demand		Date of completion of this report				
27 December 2000 (27.12.00)		27 June 2001 (27.06.2001)				
Name and mailing address of the IPEA/JP		Authorized officer				
Facsimile No.			Telephone No.			

International application No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/JP00/03957

1.	I. Basis of the report					
1.	With	regard to	the elements of the international application:*			
	\boxtimes	the inte	rnational application as originally filed			
	\Box	the desc	cription:			
	_	pages	, as originally filed			
		pages	, filed with the demand			
		pages	, filed with the letter of			
	\Box					
		the clair				
		pages	, as originally filed			
		pages	, as amended (together with any statement under Article 19			
		pages	, filed with the demand			
		pages .	, filed with the letter of			
		the drav	vings:			
		pages	, as originally filed			
		pages	, filed with the demand			
		pages	. filed with the letter of			
	\Box	the seque	nce listing part of the description:			
		pages	, as originally filed			
		pages	, filed with the demand			
		pages	, filed with the letter of, med with the definant			
		•	·			
2.			to the language, all the elements marked above were available or furnished to this Authority in the language in which all application was filed, unless otherwise indicated under this item.			
	Thes	e element	is were available or furnished to this Authority in the following language which is:			
		the lang	guage of a translation furnished for the purposes of international search (under Rule 23.1(b)).			
		the lang	guage of publication of the international application (under Rule 48.3(b)).			
		the lang	guage of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/			
		or 55.3				
3.			to any nucleotide and/or amino acid sequence disclosed in the international application, the international samination was carried out on the basis of the sequence listing:			
		contain	ed in the international application in written form.			
	\sqcap	filed to	gether with the international application in computer readable form.			
	\sqcap	•	ed subsequently to this Authority in written form.			
	Ħ		ed subsequently to this Authority in computer readable form.			
	\sqcap		atement that the subsequently furnished written sequence listing does not go beyond the disclosure in the			
			tional application as filed has been furnished.			
		The sta	stement that the information recorded in computer readable form is identical to the written sequence listing has			
		been fu	rnished.			
4.		The am	endments have resulted in the cancellation of:			
			the description, pages			
			the claims, Nos.			
			the drawings, sheets/fig			
		Ш '	the drawings, sheets/rig			
5.			ort has been established as if (some of) the amendments had not been made, since they have been considered to go the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**			
*	in th	acement s is report 70.17).	heets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16			
**		•	ent sheet containing such amendments must be referred to under item 1 and annexed to this report.			
	,					

International application No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/JP00/03957

III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:					
		the entire international application.			
	\boxtimes	claims Nos			
	becaus	use:			
	\boxtimes	the said international application, or the said claims Nos. 32-42 relate to the following subject matter which does not require an international preliminary examination (specif.	v):		
	The s	subject matter of Claim 32-42 relates to a method for diagnosis of the human body.	•		
		the description, claims or drawings (indicate particular elements below) or said claims Nosare so unclear that no meaningful opinion could be formed (specify):			
		the claims, or said claims Nos are so inadequate	ly supported		
		by the description that no meaningful opinion could be formed.	.y supported		
	\boxtimes	no international search report has beer, established for said claims Nos32-42	·		
2.		aningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid ence listing to comply with the standard provided for in Annex C of the Administrative Instructions:			
		the written form has not been furnished or does not comply with the standard.			
		the computer readable form has not been furnished or does not comply with the standard.			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/JP00/03957

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

tatement			
Novelty (N)	Claims	1-31,43-65	YES
	Claims		NO
Inventive step (IS)	Claims	1-20	YES
	Claims	21-31,43-65	NO NO
Industrial applicability (IA)	Claims	1-31,43-65	YES
	Claims		NO

2. Citations and explanations

Document 1: WO, 98/22626, A

Document 2: BIOSYS No. 199799785097 Document 3: BIOSYS No. 199799777801 Document 2: BIOSYS No. 199699135536

Document 1 describes a monoclonal antibody that specifically responds to the human VEGF receptor Flt-1.

Document 2 states that Flt-1 has an important role in monocyte and macrophage migration, document 3 states that VEGF stimulates monocyte activity and chemotaxis mediated by Flt-1, and document 4 states that Flt-1 is a receptor involved in monocyte migration.

Claims 21-31

Because it is known that Flt-1 is present in monocytes and macrophages, persons skilled in the art can easily conceive of using a monoclonal antibody specifically responding to Flt-1 for diagnosing illnesses involving monocytes and macrophages.

Moreover, techniques for preparing humanized antibodies are widely known, and it is not particularly difficult to convert the antibody described in document 1 to a humanized form.

Claims 43-53

Because it is known that Flt-1 is involved in the migration of monocytes and macrophages, persons skilled in the art can easily conceive of using a monoclonal antibody specifically responding to Flt-1 to inhibit the migration of monocytes and macrophages.

Claims 54-65

Because it is known that Flt-1 is present in monocytes and macrophages, persons skilled in the art can easily conceive of using a monoclonal antibody specifically responding to Flt-1 for treating illnesses involving monocytes and macrophages.

International application No.

' INTERNATIONAL PRELIMINARY EXAMINATION REPORT	PCT/JP00/03957
Supplemental Box (To be used when the space in any of the preceding boxes is not sufficient)	
Continuation of Box V (Citations and explanations):	
Claims 1-20	
None of the documents cited in the international search report or to these inventions describes the inventions set forth in Claims obvious to persons skilled in the art.	documents considered relevant 1-20, and these matters are not
· · ·	~ .